



SAFETY DATA SHEET

CILBOND 49SF

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name CILBOND 49SF

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Adhesive.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Chemical Innovations Ltd
217 Walton Summit Road
Bamber Bridge
Preston, Lancashire
PR5 8AQ United Kingdom
T +44 (0)1772 322888
F +44 (0)1772 315853
Email: sds@cilbond.com

1.4. Emergency telephone number

+44(0)7778 029192

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | |
|-------------------------------|---|
| Physical and Chemical Hazards | Flam. Liq. 2 - H225 |
| Human health | EUH066; Eye Irrit. 2 - H319; STOT SE 3 - H336 |
| Environment | Not classified. |

Classification (1999/45/EEC)

Xi; R36. F; R11. R66, R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

See section 11 for additional information on health hazards.

Environment

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful effect on the environment.

Physical and Chemical Hazards

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

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| | | |
|---|--------------|--|
| Signal Word | Danger | |
| Hazard Statements | H225 | Highly flammable liquid and vapour. |
| | H319 | Causes serious eye irritation. |
| | H336 | May cause drowsiness or dizziness. |
| Precautionary Statements | P501 | Dispose of contents/container in accordance with local regulations. |
| Supplementary Precautionary Statements | P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| | P233 | Keep container tightly closed. |
| | P240 | Ground/bond container and receiving equipment. |
| | P241 | Use explosion-proof electrical equipment. |
| | P242 | Use only non-sparking tools. |
| | P243 | Take precautionary measures against static discharge. |
| | P271 | Use only outdoors or in a well-ventilated area. |
| | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | P261 | Avoid breathing vapour/spray. |
| | P264 | Wash contaminated skin thoroughly after handling. |
| | P370+378 | In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. |
| | P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| | P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| | P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P313 | Get medical advice/attention. |
| | P337 | If eye irritation persists: |
| | P403+233 | Store in a well-ventilated place. Keep container tightly closed. |
| | P403+235 | Store in a well-ventilated place. Keep cool. |
| | P405 | Store locked up. |
| Supplemental label information | EUH066 | Repeated exposure may cause skin dryness or cracking. |

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| | | |
|--|------------------------------------|---------------------------------------|
| 2-METHOXY-1-METHYLETHYL ACETATE | | 5-10% |
| CAS-No.: 108-65-6 | EC No.: 203-603-9 | Registration Number: 01-2119475791-29 |
| Classification (EC 1272/2008) Flam. Liq. 3 - H226 | Classification (67/548/EEC) R10 | |

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| | | |
|--|--|--|
| BUTANONE | | 40-50% |
| CAS-No.: 78-93-3 | EC No.: 201-159-0 | Registration Number: 01-2119457290-43 |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336 | Classification (67/548/EEC) F;R11 Xi;R36 R66 R67 | |
| XYLENE | | 10-20% |
| CAS-No.: 1330-20-7 | EC No.: 215-535-7 | Registration Number: 01-2119488216-32 |
| Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 | Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38 | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Move the exposed person to fresh air at once.
Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.
For breathing difficulties oxygen may be necessary.
If breathing stops, provide artificial respiration.
Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT INDUCE VOMITING!
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!
Remove victim immediately from source of exposure.
Immediately rinse mouth and provide fresh air.
Get medical attention immediately!
NOTE! Keep affected person away from heat, sparks and flames!

Skin contact

Remove affected person from source of contamination.
Wash the skin immediately with soap and water.
Get medical attention if irritation persists after washing.

Eye contact

Remove victim immediately from source of exposure.
Make sure to remove any contact lenses from the eyes before rinsing.
Promptly wash eyes with plenty of water while lifting the eye lids.
Continue to rinse for at least 15 minutes.
Contact physician if irritation persists.

4.2. Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

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Inhalation

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Prolonged skin contact may cause redness and irritation.

Eye contact

May cause severe irritation to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media**Extinguishing media**

Fire can be extinguished using:

Foam.

Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media

Do not use water as an extinguisher.

5.2. Special hazards arising from the substance or mixture**Hazardous combustion products**

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE!

Vapours are heavier than air and may spread near ground to sources of ignition.

Specific hazards

Vapours may be ignited by a spark, a hot surface or an ember.

Vapours may form explosive air mixtures even at room temperature.

5.3. Advice for firefighters**Special Fire Fighting Procedures**

Move container from fire area if it can be done without risk.

Containers close to fire should be removed or cooled with water.

Cool containers exposed to flames with water until well after the fire is out.

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

Stop leak if possible without risk.

Provide ventilation and confine spill. Do not allow runoff to sewer.

Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

See section 11 for more detailed information on health effects and symptoms.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Static electricity and formation of sparks must be prevented.
 Keep away from heat, sparks and open flame.
 Use explosion proof electric equipment.
 Avoid spilling, skin and eye contact.
 Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.
 Stir thoroughly before and during use. Refer to SDS

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|---------------------------------|-----|-------------|---------------|---------------|---------------|-------|
| 2-METHOXY-1-METHYLETHYL ACETATE | WEL | 50 ppm(Sk) | 274 mg/m3(Sk) | 100 ppm(Sk) | 548 mg/m3(Sk) | |
| BUTANONE | WEL | 200 ppm(Sk) | 600 mg/m3(Sk) | 300 ppm(Sk) | 899 mg/m3(Sk) | |
| XYLENE | WEL | 50 ppm(Sk) | 220 mg/m3(Sk) | 100 ppm(Sk) | 441 mg/m3(Sk) | |

WEL = Workplace Exposure Limit.

Ingredient Comments

Due to the hazardous nature of ingredients, exposure should be minimal.

BUTANONE (CAS: 78-93-3)

Ingredient Comments

Due to the hazardous nature of ingredients, exposure should be minimal.

8.2. Exposure controls

Protective equipment



Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Use protective gloves made of:
 Rubber, neoprene or PVC.

Eye protection

Wear approved safety goggles.

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Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA!

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Promptly remove any clothing that becomes contaminated.

When using do not eat, drink or smoke.

Personal protection

Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower.

Skin protection

Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls

Store in a demarcated bunded area to prevent release to drains and/or watercourses.

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------------------|
| Appearance | Volatile |
| | Liquid |
| Colour | Red. |
| Odour | Characteristic. of solvents |
| Solubility | Miscible with: Organic solvents. |
| Initial boiling point and boiling range (°C) | >78@ 760 mm Hg |
| Melting point (°C) | <-50 |
| Relative density | 0.90-0.95@ 25°C |
| Vapour density (air=1) | >1 |
| Vapour pressure | 25 mm Hg @25°C |
| Evaporation rate | 0.6 Ref BuAc=1 |
| Flash point (°C) | -2 Method CC (Closed cup). |
| Auto Ignition Temperature (°C) | >250 |
| Flammability Limit - Lower(%) | 1.8 |
| | LFL based on Butanone, CAS No:78-93-3 |
| Flammability Limit - Upper(%) | 10.1 |
| | UFL based on Butanone, CAS No:78-93-3 |

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product may form explosive vapours/air mixtures even at normal room temperatures.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid heat.

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Avoid contact with oxidisers or reducing agents.

10.5. Incompatible materials

Materials To Avoid

No specific, or groups of materials are likely to react to produce a hazardous situation.

10.6. Hazardous decomposition products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

This material is harmful

Inhalation

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Vapour from this chemical can be hazardous when inhaled.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Eye contact

Irritation of eyes and mucous membranes.

Health Warnings

Product has a defatting effect on skin.

Route of entry

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Target Organs

Respiratory system, lungs Mucous membranes

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

Adsorption/Desorption Coefficient

Not determined.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not determined.

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SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General Full protective clothing should be worn when handling this product.

Road Transport Notes Avoid releasing to the environment.

Sea Transport Notes Do not release into the environment.

14.1. UN number

UN No. (ADR/RID/ADN) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

14.2. UN proper shipping name

Proper Shipping Name ADHESIVE

14.3. Transport hazard class(es)

ADR/RID/ADN Class 3

ADR/RID/ADN Class Class 3: Flammable liquids.

IMDG Class 3

ICAO Class/Division 3

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group II

IMDG Packing group II

ICAO Packing group II

14.5. Environmental hazards

14.6. Special precautions for user

EMS F-E, S-D

Emergency Action Code 3 [Y] E

Hazard No. (ADR) 33

Tunnel Restriction Code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Petroleum (Consolidation) Act, as amended 1984 SI 1244.

Highly Flammable Liquid Regulations 1972.

Environmental Listing

No listing noted.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Control of Substances Hazardous to Health.

Export of Dangerous Chemicals Regulations.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

EU Legislation

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Preparations Directive 1999/45/EC.

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

15.3 International Inventories

EU - EINECS/ELINCS

None of the ingredients are listed.

SECTION 16: OTHER INFORMATION

Information Sources

N/A

Revision Comments

Reviewed & Reissued

Revision Date 17/12/2013

Revision 3

Supersedes date 15/04/2013

SDS No. 10184

Risk Phrases In Full

| | |
|--------|---|
| R10 | Flammable. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R11 | Highly flammable |
| R36 | Irritating to eyes. |
| R38 | Irritating to skin. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness. |

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Hazard Statements In Full

| | |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |

stir

STIR BEFORE USE.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.